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FIG. 1 PRIOR ART

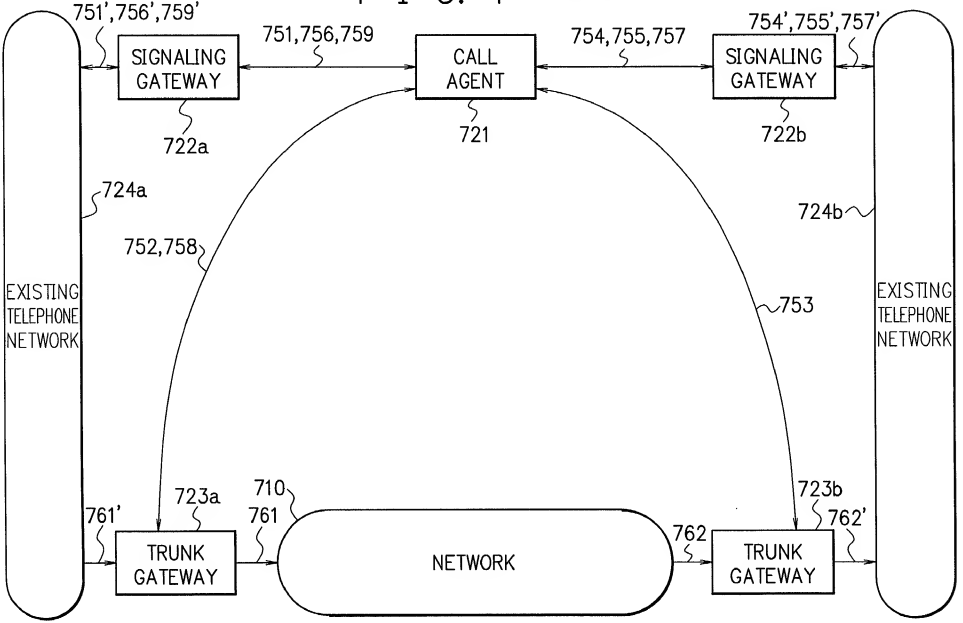

FIG. 2 PRIOR ART

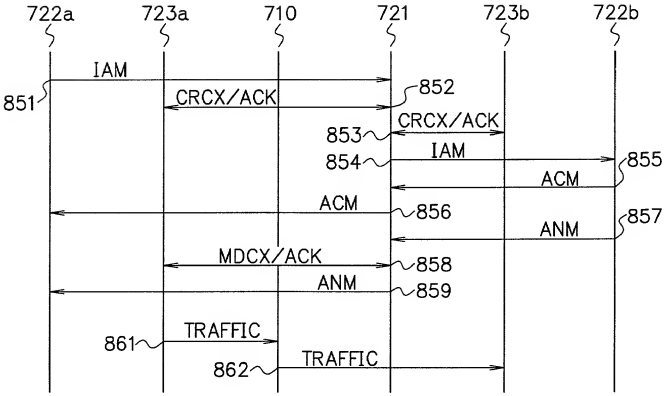

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FIG. 3 PRIOR ART

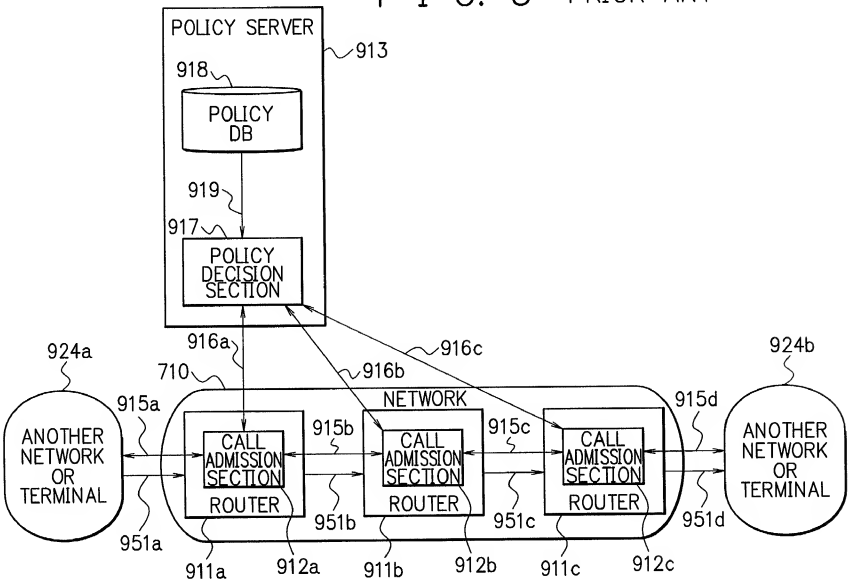


FIG. 4

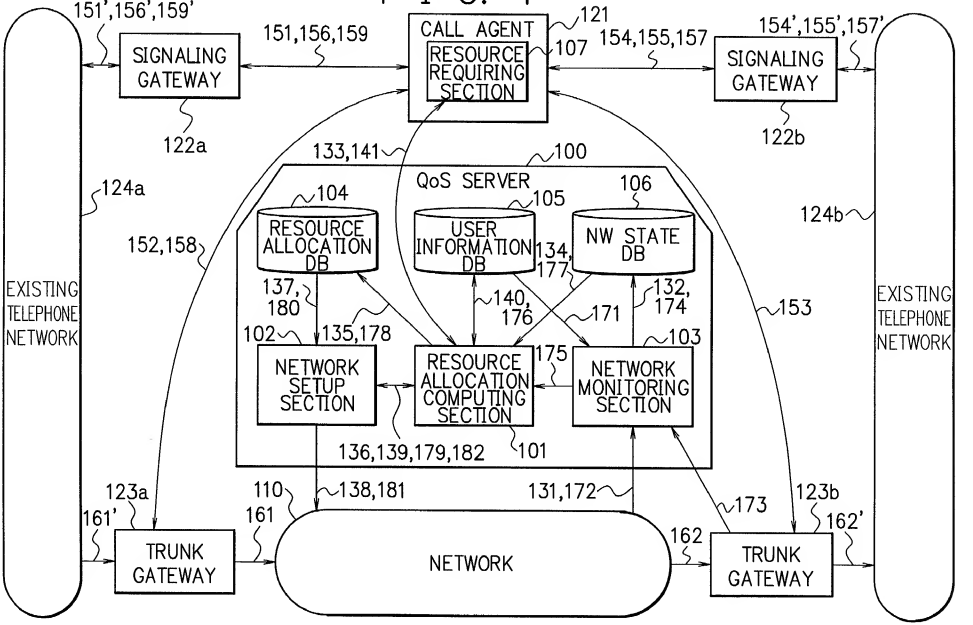
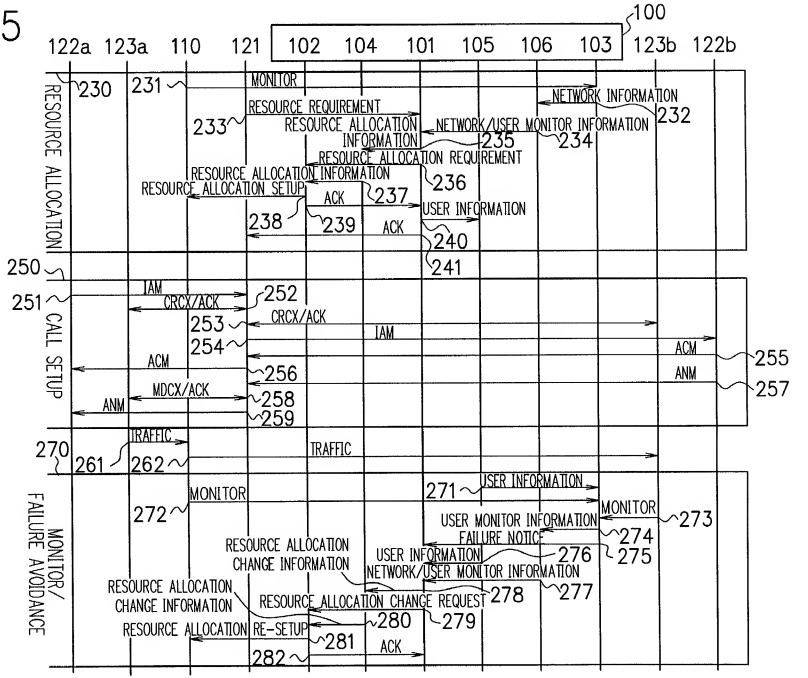
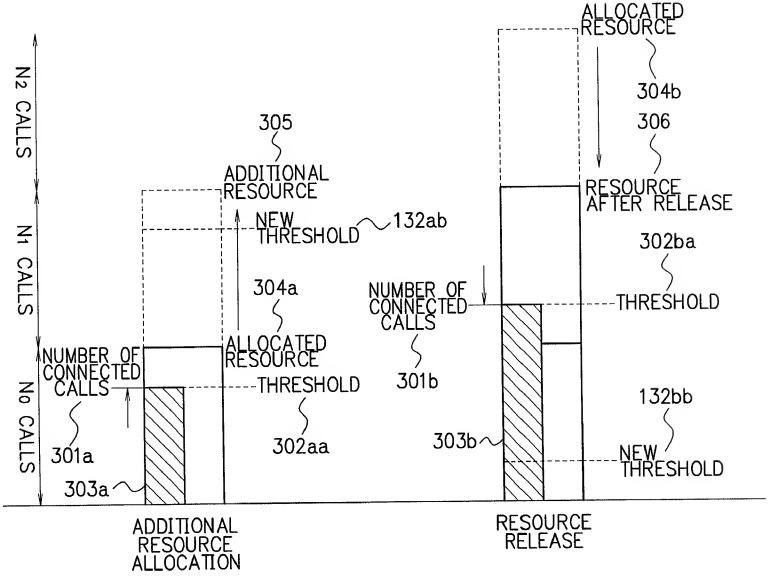

151',156',159'
SIGNALING GATEWAY
122a
151,156,159
CALL AGENT
RESOURCE REQUIRING SECTION
121
107
154,155,157
154',155',157'
SIGNALING GATEWAY
122b
133,141
100
QoS SERVER
124a
104
RESOURCE ALLOCATION DB
105
USER INFORMATION DB
106
NW STATE DB
124b
152,158
134,177
EXISTING TELEPHONE NETWORK
137,180
140,176
171
132,174
153
EXISTING TELEPHONE NETWORK
102
135,178
NETWORK SETUP SECTION
RESOURCE ALLOCATION COMPUTING SECTION
175
NETWORK MONITORING SECTION
103
136,139,179,182
101
123a
161'
110
138,181
131,172
173
123b
162'
161
TRUNK GATEWAY
NETWORK
162
TRUNK GATEWAY

FIG. 5


100
122a
123a
110
121
102
104
101
105
106
103
123b
122b
RESOURCE ALLOCATION
CALL SETUP
MONITOR/ FAILURE AVOIDANCE
250
251
270
230
231
MONITOR
RESOURCE REQUIREMENT
NETWORK INFORMATION
232
233
RESOURCE ALLOCATION INFORMATION
NETWORK/USER MONITOR INFORMATION
235
234
RESOURCE ALLOCATION REQUIREMENT
RESOURCE ALLOCATION INFORMATION
236
RESOURCE ALLOCATION SETUP
ACK
237
USER INFORMATION
238
239
ACK
240
241
IAM
CRCX/ACK
252
CRCX/ACK
253
IAM
254
ACM
255
ACM
256
ANM
257
MDCX/ACK
258
ANM
259
TRAFFIC
TRAFFIC
261
262
MONITOR
USER INFORMATION
271
272
MONITOR
273
USER MONITOR INFORMATION
FAILURE NOTICE
274
275
RESOURCE ALLOCATION CHANGE INFORMATION
USER INFORMATION
276
NETWORK/USER MONITOR INFORMATION
277
RESOURCE ALLOCATION CHANGE INFORMATION
278
RESOURCE ALLOCATION CHANGE REQUEST
279
RESOURCE ALLOCATION RE-SETUP
280
281
ACK
282

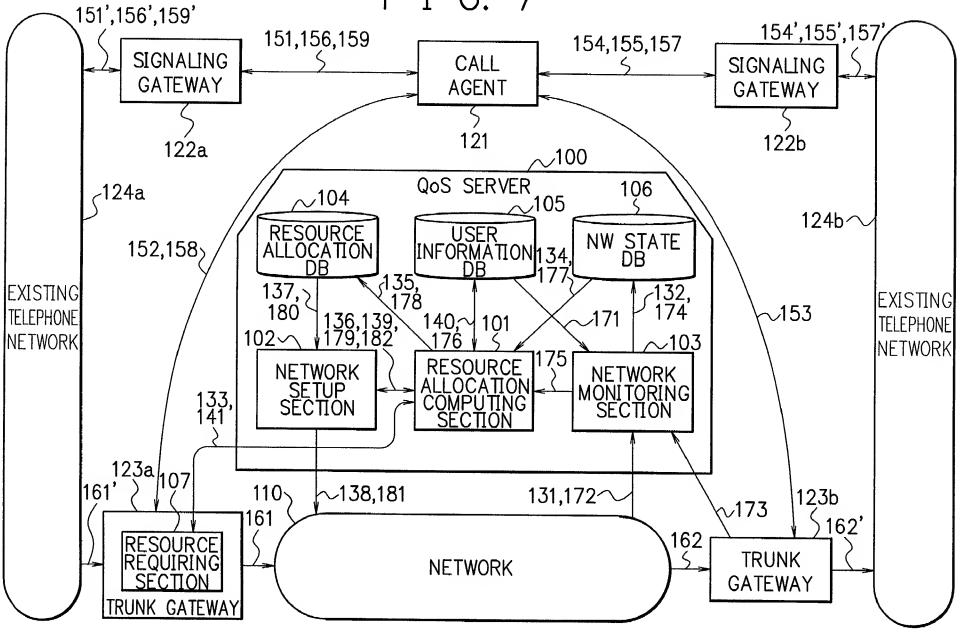
EP 0 988 660 A1

FIG. 6



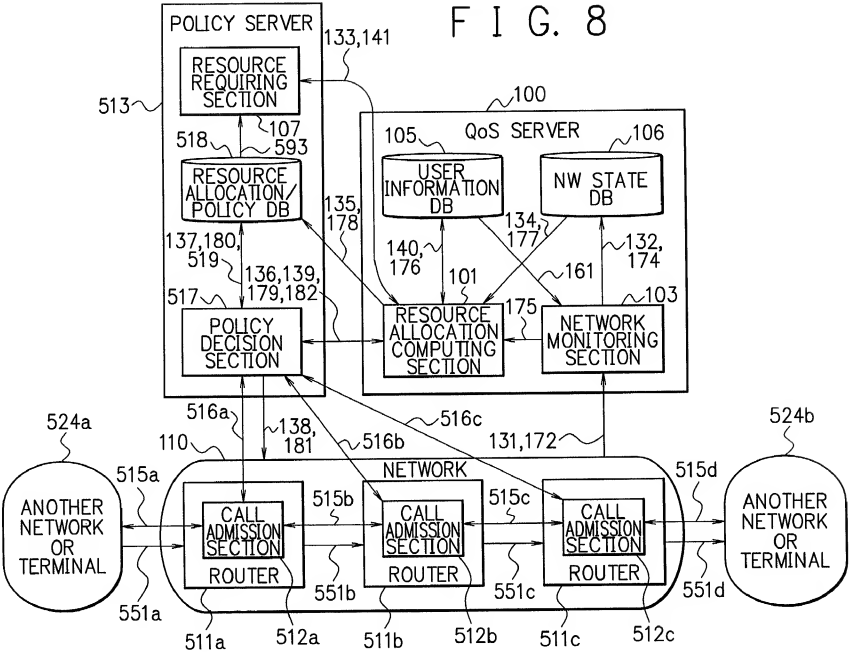
EP 1 128 660 A2

FIG. 7



T002TT*ES988660

FIG. 8



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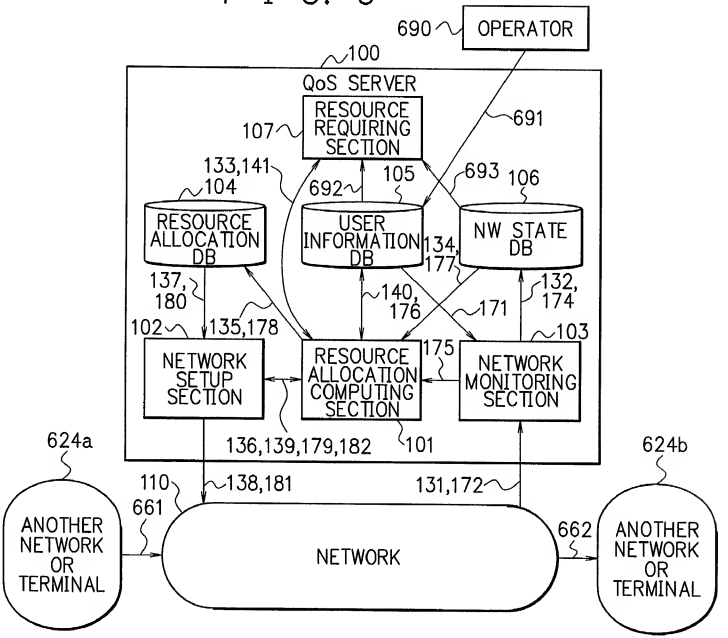
FIG. 9